

PATENT CLAIMS

1. A device for positioning and lifting a marine structure, particularly a platform deck, with the use of a U-shaped ballastable lifting vessel (1), characterised by comprising at least two adjustable lifting frames (12,12), each able to incline towards the middle of the docking area (as each of the lifting frames (12) consists of an upper horizontal lifting beam (13), preferably situated on a level above the top of the lifting vessel (1), a near-vertical support structure (16) which in its upper end is connected to the lifting beam (13) and which in its lower end is hinged (21) to the lifting vessel (1), and a near-horizontal part (18) which in its first end is connected to the lifting beam (13) and which in its second end is adjustably connected to the lifting vessel (1).

2. A device according to claim 1, characterised in that the upper horizontal lifting beam (13) is covered with an external shock absorbing cover (14).

3. A device according to claim 2, characterised in that the shock absorbing cover (14) is made of rubber.

4. A device according to claim 1, characterised in that the lifting beam (13) is provided with hydraulic cylinders (30) in pre-defined lifting point positions.

5. A device according to claim 1, characterised in that the lifting beam (13) is provided with sand-filled cylinders (35) in pre-defined lifting point positions as the sand-filled cylinders (35) co-operate with the corresponding conical tubular stubs (37) on the platform deck.

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6. A device according to any of the preceding claims,
characterised in that the near-vertical part (16) is a truss structure.
7. A device according to any of the preceding claims,
characterised in that the near-horizontal part (18) is a truss structure.
8. A device according to any of the preceding claims,
characterised in that the adjustable connection of the near-horizontal part (18) of the lifting vessel (1) is in the form of a hydraulically operated bolt (9) inserted into a corresponding hole (8) in a guiding rail (7) on the lifting vessel (1).
9. A device according to any of the preceding claims,
characterised in that the near-vertical part (16) in an area above the hinge point (21) is equipped with adjustable hydraulic arms (20) connected to the lifting vessel (1).

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